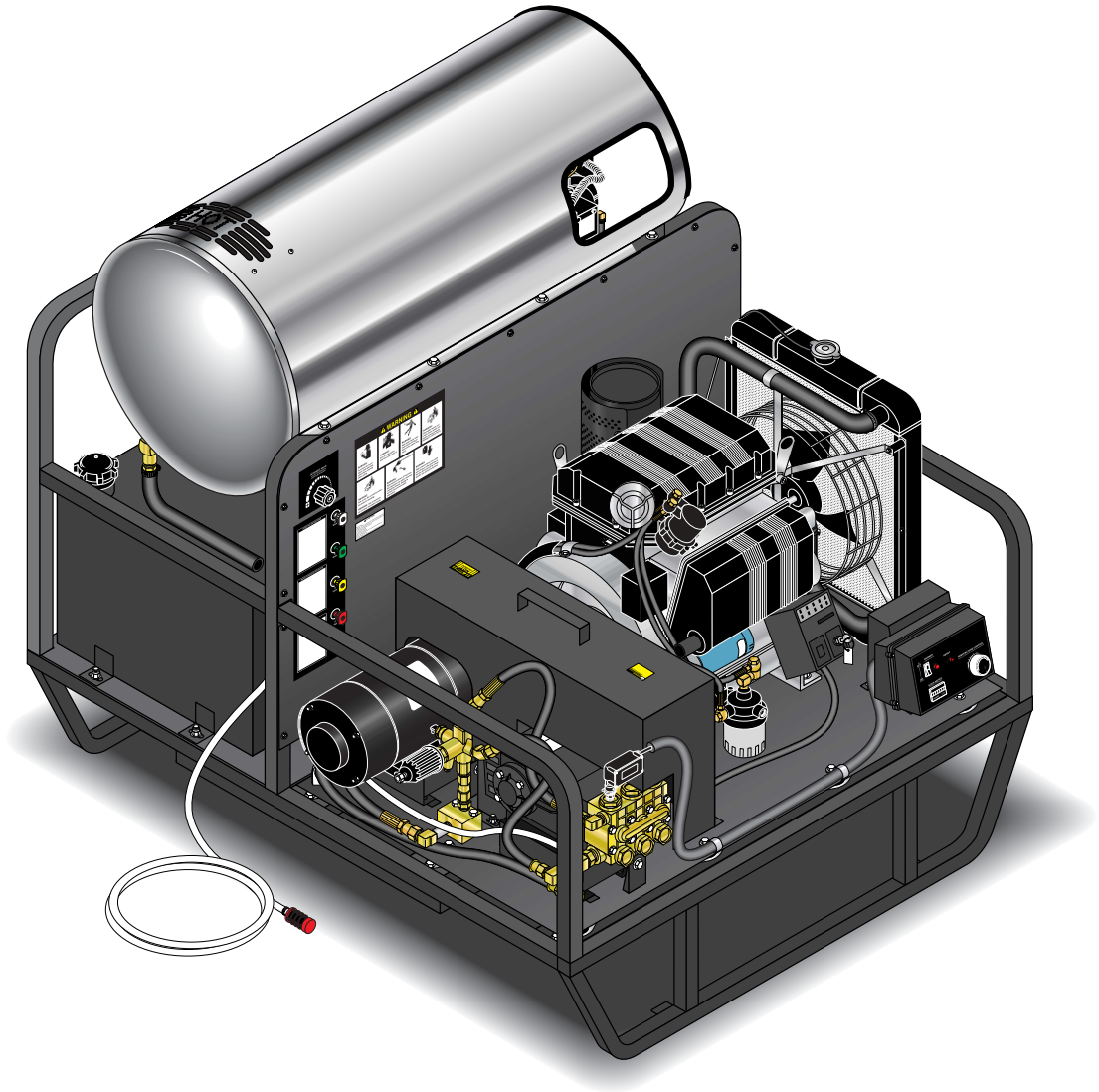
Shark Pressure Washers

SSD
DIESEL

OPERATOR'S MANUAL

■ SSD-503067E/G



For technical assistance or the SHARK dealer nearest you
visit our website at www.shark-pw.com

97-6167

MACHINE SPECIFICATIONS

Machine	Volume at Pump Head (GPM)	Pressure at Pump Head (PSI)	Weight (Lbs)	Dimensions Length x Width x Height (Inches)
503067E/G	5.2	3000	1066	51" x 44" x 41"

OPTIONS

Part No.	Description	Field Installation	Factory Installation
35-130	Stainless Steel Float Tank		X
35-131	Stainless Steel Frame		X
35-138	Wheel Kit	X	
35-168	Steam Combination		X

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Model Number _____

Serial Number _____

Date of Purchase _____

The model and serial numbers will be found on a decal attached to the pressure washer. You should record both serial number and date of purchase and keep in a safe place for future reference.

INTRODUCTION & IMPORTANT SAFETY INFORMATION

Thank you for purchasing a diesel pressure washer.

All information in this manual is based on the latest product information available at the time of printing.

We reserve the right to make changes at any time without incurring any obligation.

Owner/User Responsibility:

The owner and/or user must have an understanding of the manufacturer's operating instructions and warnings before using this pressure washer. Warning information should be emphasized and understood. If the operator is not fluent in English, the manufacturer's instructions and warnings shall be read to and discussed with the operator in the operator's native language by the purchaser/owner, making sure that the operator comprehends its contents.

Owner and/or user must study and maintain for future reference the manufacturers' instructions.

This manual should be considered a permanent part of the machine and should remain with it if machine is resold.

When ordering parts, please specify model and serial number.

IMPORTANT SAFETY INFORMATION

WARNING: When using this product basic precautions should always be followed, including the following:

⚠ CAUTION

READ OPERATOR'S MANUAL THOROUGHLY PRIOR TO USE.

CAUTION: To reduce the risk of injury, read operating instructions carefully before using.

1. Read the owner's manual thoroughly. Failure to follow instructions could cause a malfunction of the machine and result in death, serious bodily injury and/or property damage.
2. Know how to stop the machine and bleed pressures quickly. Be thoroughly familiar with the controls.
3. Stay alert — watch what you are doing.
4. All installations must comply with local codes. Contact your electrician, plumber, utility company or the selling distributor for specific details.

⚠ WARNING

RISK OF ASPHYXIATION. USE THIS PRODUCT ONLY IN A WELL VENTILATED AREA.

WARNING: Risk of asphyxiation. Only use this product outdoors.

5. Avoid installing machines in small areas or near exhaust fans. Exhaust contains poisonous carbon monoxide gas; exposure may cause loss of consciousness and may lead to death. It also contains chemi cals known in certain quantities, to cause cancer, birth defects, or other reproductive harm.

⚠ WARNING

RISK OF EXPLOSION: DO NOT USE WITH FLAMMABLE LIQUIDS.

WARNING: Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

CAUTION: Risk of fire. Do not add fuel when the product is operating.

6. Allow engine to cool for 2 minutes before refueling. If any fuel is spilled, make sure the area is dry before testing the spark plug or starting the engine. (Fire and/or explosion may occur if this is not done.)

   Engines on mobile or portable equipment shall be refueled:

   (a) outdoors;

   (b) with the engine on the equipment stopped;

   (c) with no source of ignition within 10 feet of the dispensing point; and

   (d) with an allowance made for expansion of the fuel should the equipment be exposed to a higher ambient temperature.

   In an overfilling situation, additional precautions are necessary to ensure that the situation is handled in a safe manner.

WARNING: Risk of explosion – do not spray flammable liquids.

7. Do not place machine near flammable objects as the engine is hot.

⚠ WARNING

HIGH PRESSURE STREAM CAN PIERCE SKIN AND TISSUES.

WARNING: Risk of injection or severe injury to persons - Keep clear of nozzle - Do not touch or direct discharge stream at persons. This machine is to be used only by trained operators.

CAUTION: Hot discharge fluid. Do not touch or direct discharge stream at persons.

IMPORTANT SAFETY INFORMATION

8. High pressure developed by these machines will cause personal injury or equipment damage. Use caution when operating. Do not direct discharge stream at people, or severe injury or death will result.

WARNING: High pressure spray can cause paint chips or other particles to become airborne and fly at high speeds.

9. Eye safety devices, safety clothing, hand and foot protection must be worn when using this equipment.
10. Never make adjustments on machine while it is in operation.

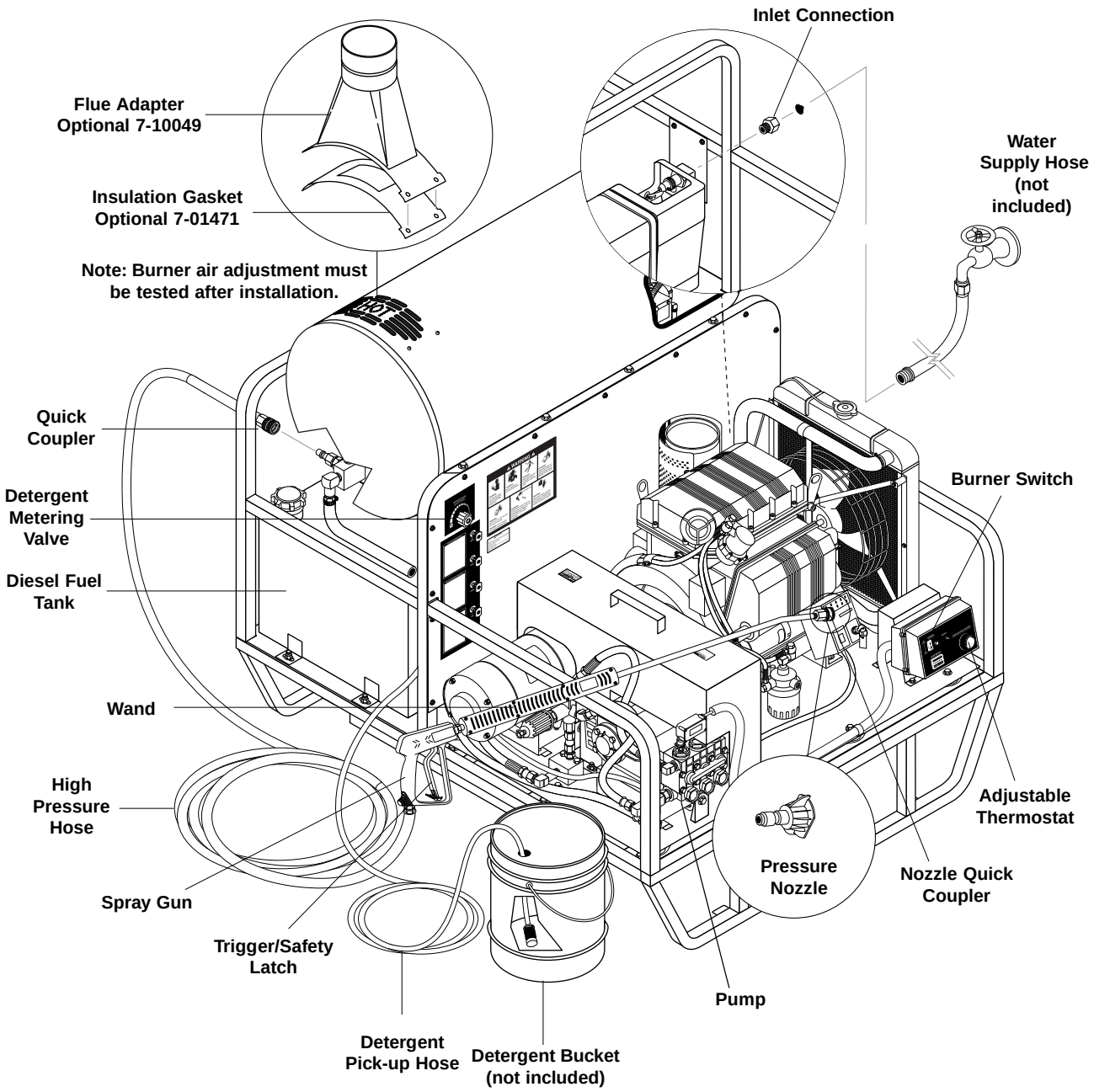
WARNING: Spray gun kicks back. Hold with both hands.

11. Grip cleaning wand securely with both hands before starting the cleaner. Failure to do this could result in injury from a whipping wand.
12. Machines with spray gun should not be operated with the spray gun in the off position for extensive periods of time as this may cause damage to the pump.
13. The best insurance against an accident is precaution and knowledge of the machine.
14. Manufacturer will not be liable for any changes made to our standard machines, or any components not purchased from the manufacturer.

WARNING: Keep wand, hose and water spray away from electrical wiring or fatal electric shock may result.

15. Read engine safety instructions provided.
16. Never run pump dry or leave spray gun closed longer than 2 minutes.
17. Inlet water must be cold and clean fresh water.
18. Use No. 1 or No. 2 Heating Oil (ASTM D306) only. **NEVER** use gasoline in your fuel oil tank. Gasoline is more combustible than fuel oil and could result in a serious explosion. **NEVER** use crankcase or waste oil in your burner. Fuel unit malfunction could result from contamination.
19. Protect machine from freezing.
20. Be certain all quick coupler fittings are secured before using pressure washer.
21. Do not allow acids, caustic, or abrasive fluids to pass through the pump.
22. To reduce the risk of injury, close supervision is necessary when a product is used near children. Do not allow children to operate the pressure washer. **This machine must be attended during operation.**
23. Do not operate this product when fatigued or under the influence of alcohol or drugs. Keep operating area clear of all persons.
24. Protect discharge hose from vehicle traffic and sharp objects. Inspect condition of high pressure hose before using or bodily injury may result.
25. Before disconnecting discharge hose from water outlet, release spray gun trigger, turn burner off and wait 3 seconds before opening spray gun to allow water to cool below 100°F before stopping the machine. Then open the spray gun to relieve pressure. Failure to properly cool down or maintain the heating coil may result in a steam explosion or coil damage.
26. Do not overreach or stand on unstable support. Keep good footing and balance at all times.
27. This machine must be attended during operation.
28. ***CAUTION: Risk of injury. Disconnect battery ground terminal before servicing.***

COMPONENT IDENTIFICATION



Pump — Develops high pressure by pumping water volume through nozzle.

Spray Gun — Controls the application of water and detergent onto cleaning surface with trigger device. Includes safety latch.

Detergent Metering Valve — Controls detergent mixture.

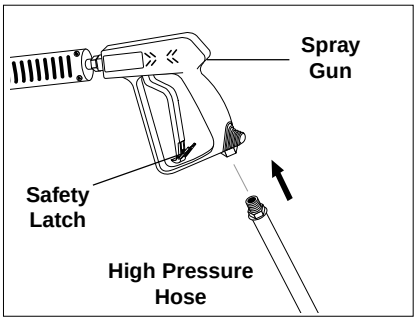
Wand — Must be connected to the spray gun.

High Pressure Hose — Connect one end to water pump discharge nipple and the other end to spray gun.

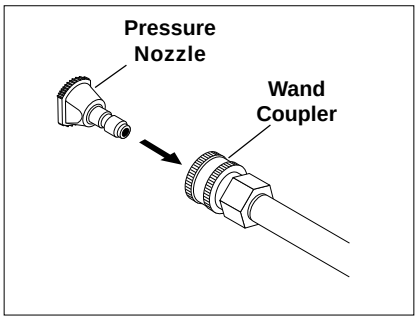
Pressure Nozzle — Inserted into wand quick coupler to develop pressure

Adjustable Thermostat — Prevents water temperature from exceeding high temperatures. Is not used to maintain constant temperature setting.

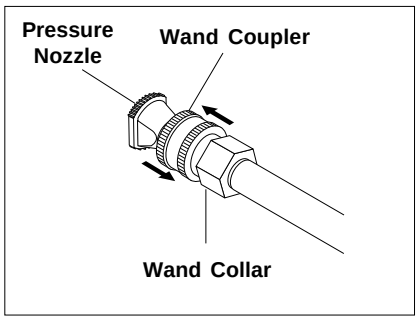
ASSEMBLY INSTRUCTIONS



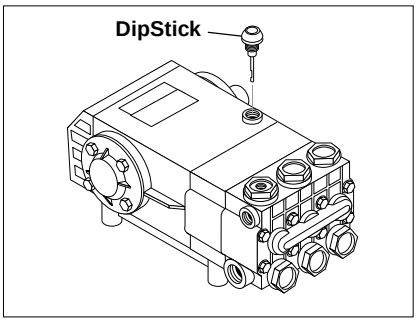
STEP 1: Attach the high pressure hose to the spray gun using teflon tape on hose threads.



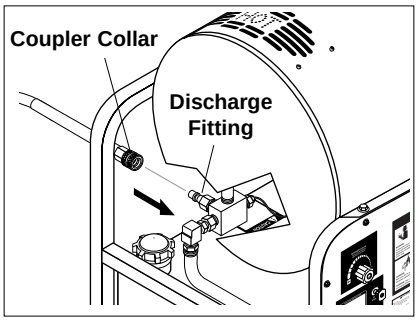
STEP 2: Pull the spring-loaded collar of the wand coupler back to insert your choice of pressure nozzle.



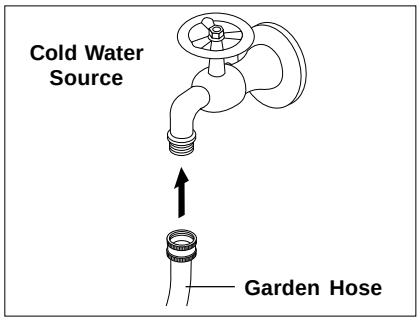
STEP 3: Release the coupler collar and push the nozzle until the collar clicks. Pull the nozzle to make sure it is seated properly.



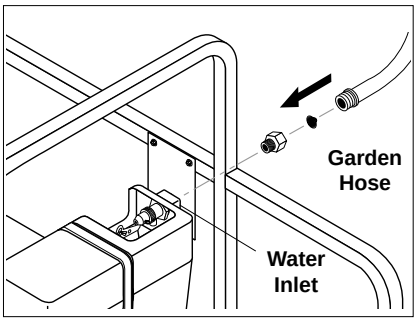
STEP 4: Remove shipping cap and install oil dipstick. Check pump oil level by using dipstick or observe oil level in oil window (if equipped). Use 30 wt. non detergent oil.



STEP 5: Connect the high pressure hose to the pump discharge fitting. Push coupler collar forward until secure.

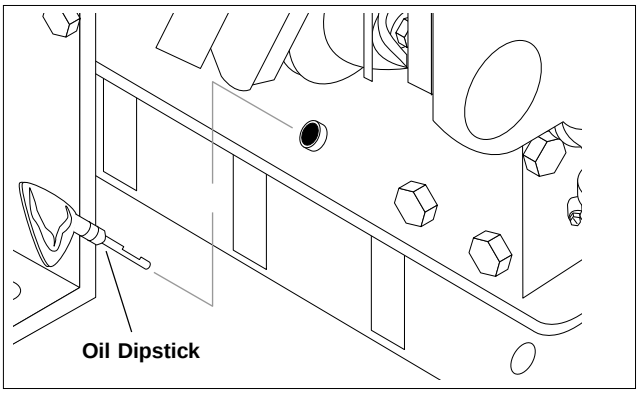


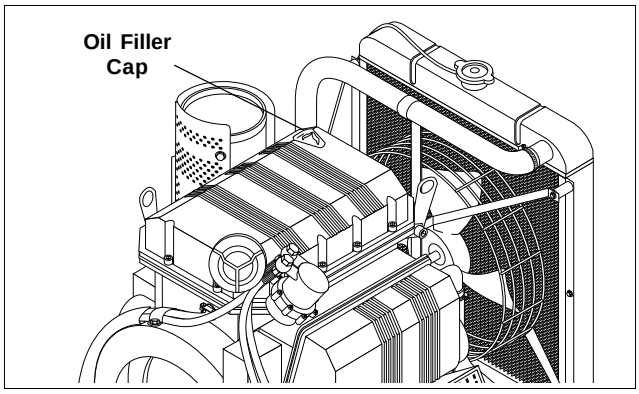
STEP 6: Connect one end of garden hose to the cold water source.



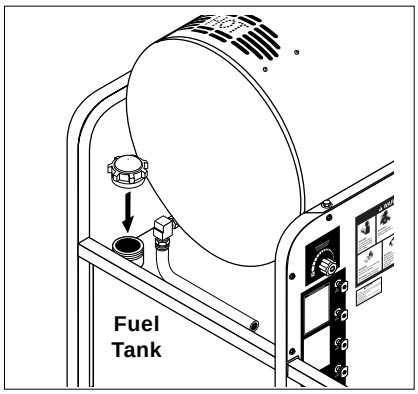
STEP7: Connect the other end of the garden hose to pump water inlet. Inspect inlets. ***CAUTION: Do not run the pump without water or pump damage will result.***

OPERATING INSTRUCTIONS

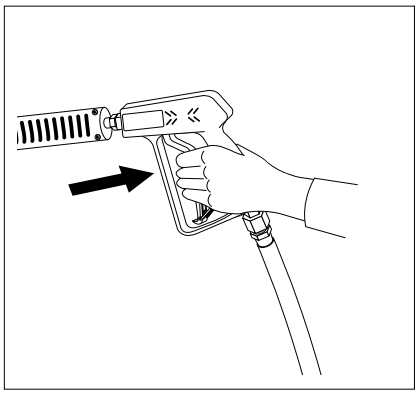




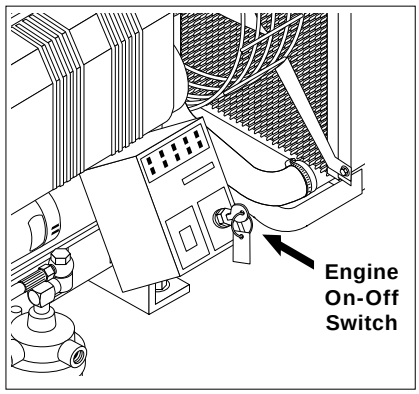
STEP 1: Check engine oil level. Oil level should be level with the bottom of the oil filler neck. (Refer to the engine's operating manual included with machine.) We recommend that the oil be changed after the first 5 hours of use, then once every 50 hours. **Note:** Improper oil levels will cause low oil sensor to shut off engine. **IMPORTANT! Do not run engine with high or low oil levels as this will cause engine damage.**



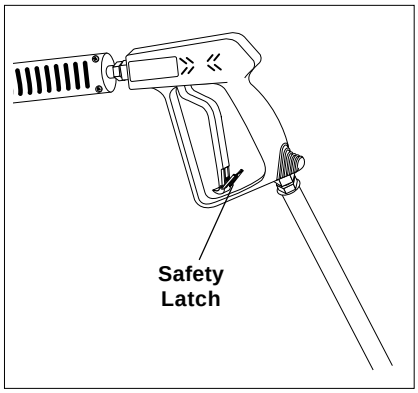
STEP 2: Fill engine fuel tank with Diesel fuel.



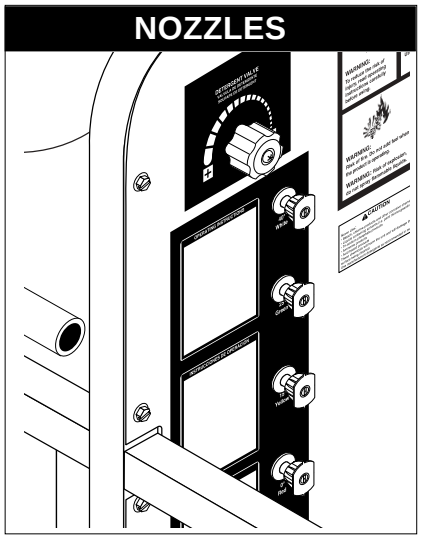
STEP 3: Trigger the spray gun to eliminate trapped air then wait for a steady flow of water to emerge from the spray nozzle.



STEP 4: Read engine operators manual before starting. Turn the engine switch to "Start" position.



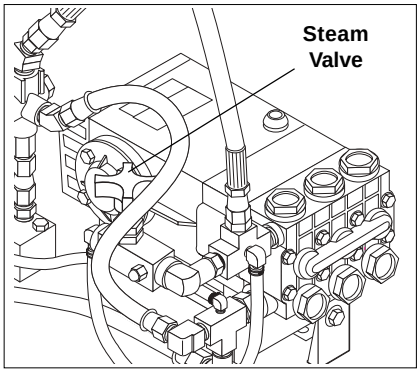
⚠ WARNING! Never replace nozzles without engaging the safety latch on the spray gun trigger.



The five color-coded quick connect nozzles provide a wide array of spray widths from 0° to 40° and are easily accessible when placed in the convenient rubber nozzle holder, which is provided on the front of the machine.

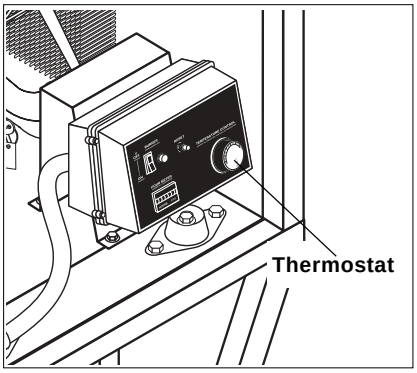
NOTE: For a more gentle rinse, select the white 40° or green 25° nozzle. To scour the surface, select the yellow 15° or red 0° nozzle. To apply detergent select the black nozzle.

STEAM COMBINATION

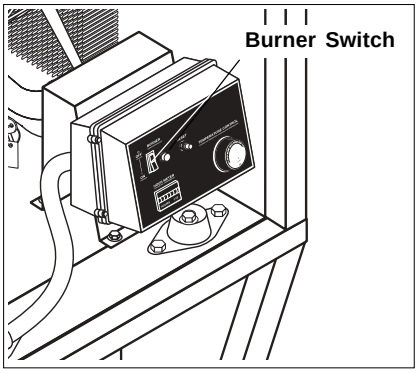


Step 1: For steam, open the steam valve counterclockwise.

This lowers the pressure and raises the temperature.



Step 2: Turn the thermostat knob to the 270° mark, (The thermostat is a high limit device and does not regulate temperature.

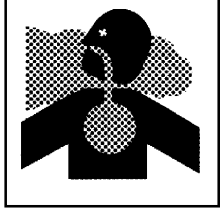


Step 3: To stop, reverse steps and set all controls to their original settings.

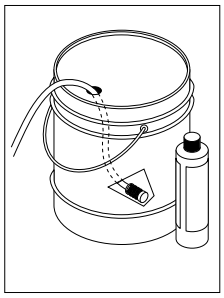
Step 4: Turn burner switch off, open trigger on spray gun and allow water to cool.

APPLYING DETERGENTS & GENERAL CLEANING TECHNIQUES

WARNING

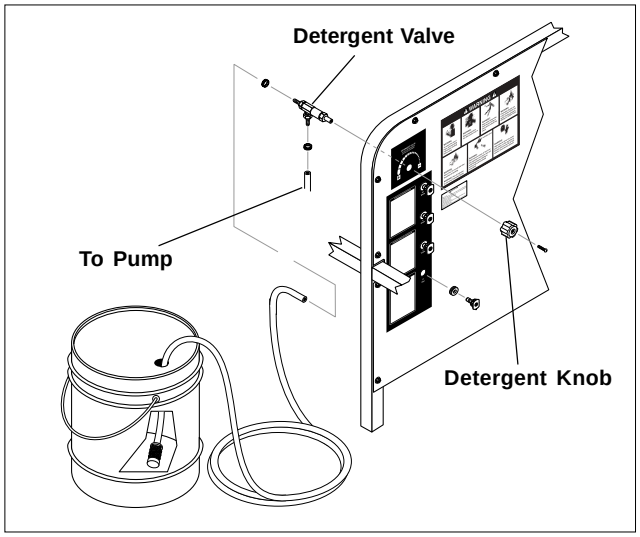


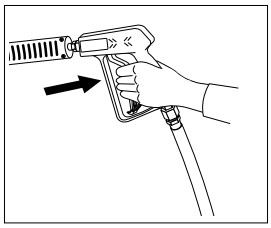
WARNING: Some detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning. The harmful elements may cause property damage or severe injury.



STEP 1: Use detergent designed specifically for pressure washers. Household detergents could damage the pump. Prepare detergent solution as required by the manufacturer. Fill a container with pressure washer detergent. Place the filter end of detergent suction tube into the detergent container.

STEP 2: Open detergent valve knob to desired mixture ratio.





STEP 3: With the engine running, pull trigger to operate machine. Liquid detergent is drawn into the machine and mixed with water. Apply detergent to work area. Do not allow detergent to dry on surface.

IMPORTANT: You must flush the detergent line after each use by placing the suction tube into a bucket of clean water, then run the pressure washer for 1-2 minutes.

THERMAL PUMP PROTECTION

If you run the engine on your pressure washer for 3-5 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach high temperatures. When the water reaches this temperature, the pump protector engages and cools the pump by discharging the warm water onto the ground. This thermal device prevents internal damage to the pump.

CLEANING TIPS

Pre-rinse cleaning surface with fresh water. Place detergent suction tube directly into cleaning solution and apply to surface (for best results, limit your work area to sections approximately 6 feet square and always apply detergent from bottom to top). Allow detergent to remain on surface 1-3 minutes. Do not allow detergent to dry on surface. If surface appears to be drying, simply wet down surface with fresh water. If needed, use brush to remove stubborn dirt. Rinse from top to bottom in an even sweeping motion keeping the spray nozzle approximately 1 foot from cleaning surface. Use overlapping strokes as you clean and rinse any surface. For best surface cleaning action spray at a slight angle.

Recommendations:

- Before cleaning any surface, an inconspicuous area should be cleaned to test spray pattern and distance for maximum cleaning results.
- If painted surfaces are peeling or chipping, use extreme caution as pressure washer may remove the loose paint from the surface.
- Keep the spray nozzle a safe distance from the surface you plan to clean. High pressure wash a small area, then check the surface for damage. If no damage is found, continue to pressure washing.

CAUTION - Never use:

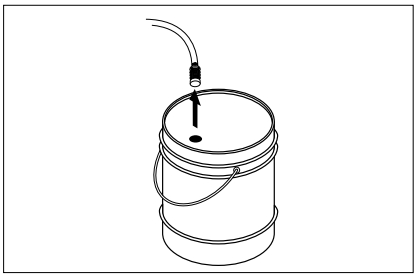
- Bleach, chlorine products and other corrosive chemicals
- Liquids containing solvents (i.e., paint thinner, gasoline, oils)
- Tri-sodium phosphate products
- Ammonia products
- Acid-based products

These chemicals will harm the machine and will damage the surface being cleaned.

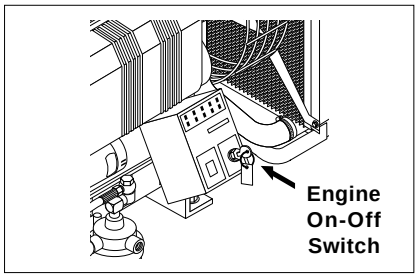
RINSING

It will take a few seconds for the detergent to clear. Apply safety latch to spray gun. Open detergent valve. Select and install the desired high pressure nozzle. **NOTE:** You can also stop detergent from flowing by simply removing detergent siphon tube from bottle.

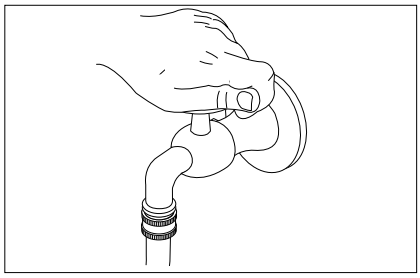
SHUTTING DOWN AND CLEAN-UP



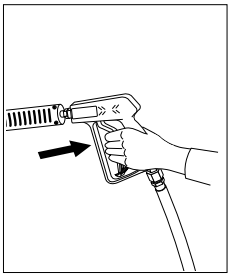
STEP 1: Remove detergent suction tube from container and insert into one gallon of fresh water. Open detergent mixing valve. Pull trigger on spray gun and siphon water for one minute.



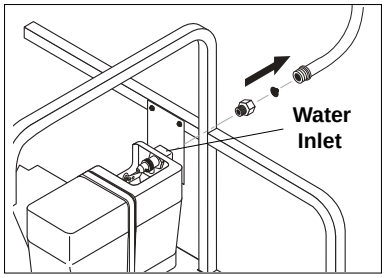
STEP 2: Read engine operator manual.



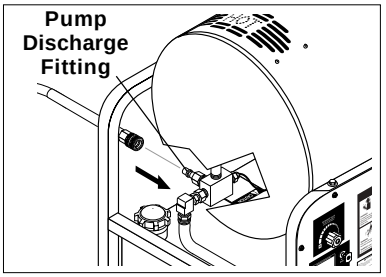
STEP 3: Turn off water supply.



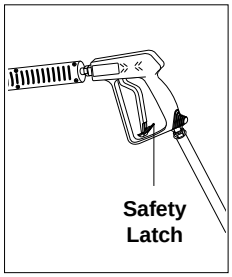
STEP 4: Press trigger to release water pressure.



STEP 5: Disconnect the garden hose from the water inlet on the machine.



STEP 6: Disconnect the high pressure hose from pump discharge fitting.



STEP 7: Engage the spray gun safety lock.

STORAGE

Measures should be taken to protect your FOCS series engine if the engine is not operated for a period of 30 days or more. Proper storage will protect the engine from corrosion and prevent costly repairs due to storage induced problems.

Storage - 1 to 6 months

1. Start and idle the engine at a no-load condition for 15 minutes.
2. Stop the engine, allow the engine to cool enough to safely drain the oil as shown Re-install the oil drain plug, then fill the crankcase with MIL-L-644-P9 protectant oil. Fill the fuel tank with a high grade fuel preservative (add mix) such as STA-BIL per the manufacturer recommendations.
3. Start and operate the engine at 3/4 speed for 5-10 minutes.
4. Stop the engine, allow to cool enough to safely drain the engine oil as shown. Re-install the oil drain plug.
5. Refill the engine with standard recommended lubricating oil.
6. Drain the fuel tank. Remove the fuel filter. Install a new fuel filter.
7. Carefully clean all debris from the radiator fins.
8. Remove the intake manifold. Rotate the engine until the intake valve opens at each cylinder. Using suitable means, pour approximately t tsp. of engine oil into each cylinder. Rotate the engine several revolutions. Spray the inside of the intake manifold with SAE 10 W oil. Replace the intake manifold using a new gasket.
9. Spray the inside of the exhaust manifold with SAE 10W oil.
10. Cover all openings with tape and apply grease to any and all unpainted surfaces.
11. Loosen the fan belt before wrapping the engine in plastic film and storing in a dry place away from high voltage sources and off the ground.

Storage - In excess of 6 months

Perform the storage preparation procedures approximately as detailed, except with the following changes.

1. Replace the oil in step 2 above with MIL-L-21260, grade 2, SAE 30W rustproof oil.
2. Delete steps 5 and 11 above.
3. Coat any and all unpainted surfaces with MIL-C 16173D, grade 3 anti-rust grease.
4. Replace anti-freeze every 2 years.

MAINTENANCE

PREVENTATIVE MAINTENANCE

1. Check to see that water pump is properly lubricated.
2. Follow winterizing instructions to prevent freeze damage to pump and coils.
3. Always neutralize and flush detergent from system after use.
4. If water is known to have high mineral content, use a water softener in your water system, or de-scale as needed.
5. Do not allow acidic, caustic or abrasive fluids to be pumped through system.
6. Always use high grade quality cleaning products.
7. Never run pump dry for extended periods of time.
8. Use clean fuel: kerosene, No. 1 fuel oil, or diesel. Clean or replace fuel filter every 100 hours of operation. Avoid water contaminated fuel as it will damage the fuel pump.
9. If machine is operated with smoky or eye burning exhaust, coils will soot up, not letting water reach maximum operating temperature.
10. Never allow water to be sprayed on or near the engine or burner assembly or any electrical component.
11. Periodically delime coils as per instructions.
12. Check to see that engine is properly lubricated.

It is advisable, periodically, to visually inspect the burner. Check air inlet to make sure it is not clogged or blocked. Wipe off any oil spills and keep equipment clean and dry.

The flow of combustion and ventilating air to the burner must not be blocked or obstructed in any manner.

The area around the washer should be kept clean and free of combustible materials, gasoline and other flammable vapors and liquids.

MAINTENANCE & SERVICE

Unloader Valves:

Unloader valves are preset and tested at the factory before shipping. Occasional adjustment of the unloader may be necessary to maintain correct pressure.

Winterizing Procedure:

Damage due to freezing is not covered by warranty. Adhere to the following cold weather procedures whenever the washer must be stored or operated outdoors under freezing conditions.

During winter months, when temperatures drop below 32°F, protecting your machine against freezing is necessary. Store the machine in a heated room. If this is not possible then mix a 50/50 solution of anti-freeze and water in the float tank. Turn the engine on to siphon the anti-freeze mixture through the machine. If compressed air is available, an air fitting can be screwed into the float tank by removing the float tank strainer and fitting. Then inject the compressed air. Water will be blown out of the machine when the trigger on the spray gun is opened.

High Limit Hot Water Thermostat:

For safety, each machine is equipped with a temperature sensitive high limit control switch. In the event that the water should exceed its operating temperature, the high limit control will turn the burner off until the water cools, then it will automatically reset itself. The thermostat sensor is located on the discharge side of the heating coil. The thermostat control dial is located on the control panel.

Pumps:

Use only SAE 30 weight non-detergent oil. Change oil after first 50 hours of use. Thereafter, change oil every three months or at 500 hour intervals. Oil level should be checked through use of dipstick found on top of pump, or the red dot visible through the oil gauge window. Oil should be maintained at that level.

Cleaning of Coils:

In alkaline water areas, lime deposits can accumulate rapidly inside the heating coil. This growth is increased by the extreme heat build up in the coil. The best preventative for liming conditions is to use high quality cleaning detergents. In areas where alkaline water is an extreme problem, periodic use of Deliming Powder (Part #9-028008) will remove lime and other deposits before coil becomes plugged. (See Deliming instructions for use of Deliming Powder.)

Deliming Coils:

Periodic flushing of coils or optional float tank is recommended.

Step 1 Fill a container with 4 gallons of water, then add 1 lb. of deliming powder. Mix thoroughly. Pour mixture into float tank.

Step 2 Remove wand assembly from spray gun and putspray gun into float tank. Secure the trigger onthe spray gun into the open position.

Step 3 Turn engine on, allowing solution to be pumped through coils back into the float tank. The solution should be allowed to circulate 2-4 hours or until the color changes.

Step 4 After circulating solution, flush the entire system with fresh water. Clean out float tank and then reinstall wand assembly to spray gun.

Removal of Soot from Heating Coil:

In the heating process, fuel residue in the form of soot deposits may develop between the heating coil pipes, and block air flow which will affect burner combustion. When soot has been detected on visual observation, the soot on the coil must be washed off after following the coil removal steps (See Coil Removal on page 14).

Rupture Disk:

If pressure from pump or thermal expansion should exceed safe limits, the rupture disk will burst allowing high pressure to be discharged through hose to ground. When disk ruptures it will need to be replaced.

Fuel:

Use clean fuel oil that is not contaminated with water and debris. Replace fuel filter and drain the tank every 100 hours of operation.

Use No.1 or No 2 Heating Oil (ASTM D306) only. NEVER use gasoline in your diesel fuel tank. Gasoline is more combustible than fuel oil and could result in a serious explosion. **NEVER** use crankcase or waste oil in your burner. Fuel unit malfunction could result from contamination.

Fuel Control System:

This machine utilizes a fuel solenoid valve located on the fuel pump to control the flow of fuel to the combustion chamber. The solenoid, which is normally closed, is activated by a flow switch when water flows through it. When the operator releases the trigger on the spray gun, the flow of water through the flow switch stops, turning off the electrical current to the fuel solenoid.

The solenoid then closes, shutting off the supply of fuel to the combustion chamber. Controlling the flow of fuel in this way gives an instantaneous burn-or-no-burn situation, thereby eliminating high and low water temperatures and the combustion smoke normally associated with machines incorporating a spray gun. Periodic inspection, to insure that the fuel solenoid valve functions properly, is recommended. This can be done by operating the machine and checking to see that the burner is not firing when the spray gun is in the OFF position.

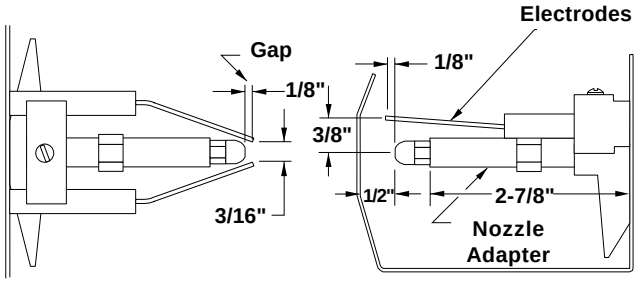
Fuel Pressure Adjustment:

To control water temperature, adjust fuel pressure by turning the regulating pressure adjusting screw clockwise to increase, counterclockwise to decrease. Do not exceed 200 psi. **NOTE**: When changing fuel pump, a bypass plug must be installed in return port or fuel pump will not prime.

Burner Nozzle:

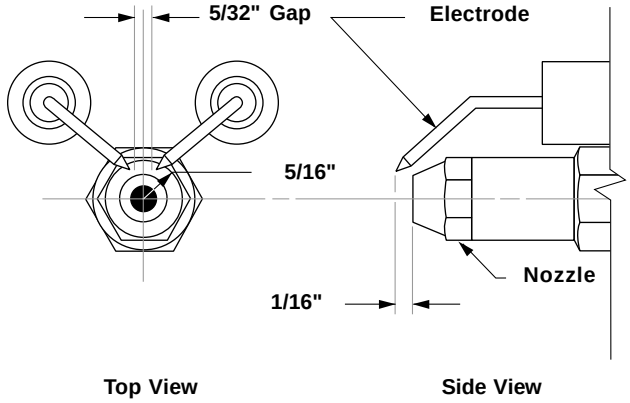
Keep the tip free of surface deposits by wiping it with a clean, solvent saturated cloth, being careful not to plug or enlarge the nozzle. For maximum efficiency, replace the nozzle each season.

Electrode Setting: Beckett



Periodically Check Wiring Connections. If Necessary To Adjust Electrodes, Use Diagram.

Electrode Setting: Wayne



Air Adjustment:

Machines are preset and performance tested at the factory - elevation 100'. A one-time initial correction for your location will pay off in economy, performance, and extended service life. If a smoky or eye-burning exhaust is being emitted from the stack, two things should be checked. First, check the fuel to be certain that kerosene or No. 1 home heating fuel is being used. Next, check the air adjustment on the burner.

To adjust: start machine and turn burner ON. Loosen two locking screws found in the air shutter openings (refer to illustration) and close air shutter until black smoke appears from burner exhaust vent. Note air band position. Next, slowly open the air shutter until white smoke just starts to appear. Turn air shutter halfway back to the black smoke position previously noted. Tighten locking screws.

If the desired position cannot be obtained using only the air shutter, lock the air shutter in as close a position as can be obtained, then repeat the above procedure on the air band setting.

MAINTENANCE

Coil Removal:

Removal of coil because of freeze breakage, or to clean soot from it can be done quickly and easily.

1. Disconnect hose from pump to inlet side of the coil.
2. Carefully disconnect the thermostat sensor making sure you do not crimp the capillary tube.
3. Remove burner assembly from combustion chamber.
4. Remove the 3-3/8" bolts from each side of coil and tank assembly (these bolts are used to fasten tank to chassis).
5. Remove fittings connected to the 1/2" pipe nipples from inlet and discharge sides of coil.
6. Remove top tank wrap, bend back insulation tabs and fold back blanket.
7. Remove bolts that hold down coil to bottom wrap.
8. Remove coil.
9. Replace or repair any insulation found to be torn or broken.
10. Remove insulation retainer plates.

Coil Reinstallation:

Reinstall new or cleaned coil reversing Steps 9 through 1.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW OPERATING PRESSURE	Faulty pressure gauge	Install new gauge.
	Insufficient water supply	Use larger supply hose; clean filter at water inlet.
	Old, worn or incorrect spray nozzle	Match nozzle number to machine and/or replace with new nozzle.
	Belt slippage	Tighten or replace; use correct belt.
	Plumbing or hose leak	Check plumbing system for leaks. Retape leaks with teflon tape.
	Faulty or misadjusted unloader valve	Adjust unloader for proper pressure. Install repair kit when needed.
	Worn packing in pump	Install new packing kit.
	Fouled or dirty inlet or discharge valves in pump	Clean inlet and discharge valves.
	Worn inlet or discharge valves	Replace with valve kit.
	Obstruction in spray nozzle	Remove obstruction.
	Leaking pressure control valve	Rebuild or replace as needed.
	Slow engine RPM	Set engine speed at proper specifications.
	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Unloader valve seat faulty	Check and replace if necessary.
BURNER WILL NOT LIGHT	Little or no fuel	Fill tank with fuel.
	Improper fuel or water in fuel	Drain fuel tank and fill with proper fuel.
	Clogged fuel line	Clean or replace.
	Plugged fuel filter	Replace as needed.
	Misadjusted burner air bands	Readjust air bands for clean burn.
	Little or no fuel pressure from fuel pump	Increase fuel pressure to specification and/or replace fuel pump. Test with pressure gauge.
	Faulty burner transformer	Test transformer for proper arc between contacts. Replace as needed.
(continued on next page)	Disconnected or short in electrical wiring	All wire contacts should be clean and tight. No breaks in wire.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
BURNER WILL NOT LIGHT (continued from previous page)	Flex coupling slipping on fuel pump shaft or burner motor shaft	Replace if needed.
	On-Off switch defective	Check for electrical current reaching burner assembly with burner switch on.
	Heavy sooting on coil and burner can cause interruption of air flow and shorting of electrodes	Clean as required.
	Improper electrode setting	Check and reset according to diagram in Operator's Manual.
	Fuel not reaching combustion chamber	Check fuel pump for proper flow. Check solenoid flow switch on machines with spray gun control for proper on-off fuel flow control.
	Clogged burner nozzle	Replace.
	Thermostat faulty or slow engine speed	Increase engine RPM to increase voltage.
	Flow switch malfunction	Remove, test for continuity and replace as needed.
	Flow solenoid malfunction	Replace if needed.
FLUCTUATING PRESSURE	Valves worn	Check and replace if necessary.
	Blockage in valve	Check and replace if necessary.
	Pump sucking air	Check water supply and air seepage at joints in suction line.
	Worn piston packing	Check and replace if necessary.
MACHINE SMOKES	Improper fuel or water in fuel	Drain tank and replace contaminated fuel.
	Improper air adjustment	Readjust air bands on burner assembly.
	Low fuel pressure	Adjust fuel pump pressure to specifications.
	Plugged or dirty burner nozzle	Replace nozzle.
	Faulty burner nozzle spray pattern	Replace nozzle.
	Heavy accumulation of soot on coils and burner assembly	Remove coils and burner assembly, clean thoroughly.
	Misaligned electrode setting	Realign electrodes to specifications.
	Obstruction in smoke stack	Check for insulation blockage or other foreign objects.
	Low engine RPM	Increase RPM.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
LOW WATER TEMPERATURE	Improper fuel or water in fuel	Replace with clean and proper fuel.
	Low fuel pressure	Increase fuel pressure.
	Weak fuel pump	Check fuel pump pressure. Replace pump if needed.
	Fuel filter partially clogged	Replace as needed.
	Soot build-up on coils not allowing heat transfer	Clean coils.
	Improper burner nozzle	See burner specifications (page 34).
WATER TEMPERATURE TOO HOT	Incoming water to machine warm or hot	Lower incoming water temperature.
	Fuel pump pressure too high	See specifications for proper fuel pressure.
	Fuel pump defective	Replace fuel pump.
	Detergent line sucking air	Tighten all clamps. Check detergent lines for holes.
	Defective temperature switch	Replace.
	Incorrect fuel nozzle size	See burner specifications (page 34).
	Insufficient water supplied	Check water G.P.M. to machine.
	Restrict water flow	Check nozzle for obstruction, proper size.
PUMP NOISY	Air in suction line	Check water supply and connections on suction line.
	Broken or weak inlet or discharge valve springs	Check and replace if necessary.
	Excessive matter in valves	Check and clean if necessary.
	Worn bearings	Check and replace if necessary.
PRESENCE OF WATER IN OIL	Oil seal worn	Check and replace if necessary.
	High humidity in air	Check and change oil twice as often.
WATER DRIPPING FROM UNDER PUMP	Piston packing worn	Check and replace if necessary.
	O-Ring plunger retainer worn	Check and replace if necessary.
	Cracked piston	Check and replace if necessary.
	Pump protector	Lower water supply pressure. Do not run with spray gun closed longer than 2

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
OIL DRIPPING	Oil seal worn	Check and replace if necessary.
EXCESSIVE VIBRATION IN DELIVERY LINE	Irregular functioning of the valves	Check and replace if necessary.
DETERGENT NOT DRAWING	Air leak	Tighten all clamps. Check detergent lines for holes.
	Restrictor in float tank is missing	Replace restrictor. Check for proper orifice in restrictor.
	Filter screen on detergent suction hose plugged	Clean or replace.
	Dried up detergent plugging metering valve	Disassemble and clean thoroughly.
	High viscosity of detergent	Dilute detergent to specifications.
	Hole in detergent line(s)	Repair hole.
	Low detergent level	Add detergent, if needed.
PUMP RUNNING NORMALLY BUT PRESSURE LOW ON INSTALLATION	Pump sucking air	Check water supply and possibility of air seepage.
	Valves sticking	Check and clean or replace if necessary.
	Nozzle incorrectly sized	Check and replace if necessary (See serial plate for proper size).
	Unloader valve seat faulty	Check and replace if necessary.
	Worn piston packing	Check and replace if necessary.
BURNER MOTOR WILL NOT RUN	Fuel pump seized	Replace fuel pump.
	Burner fan loose or misaligned	Position correctly, tighten set screw.
	Defective control switch	Replace switch.
	Loose wire	Check and replace or tighten wiring.
	Defective burner motor	Replace motor.
RELIEF VALVE LEAKS WATER	Relief valve defective	Replace or repair.

PREVENTATIVE MAINTENANCE

This pressure washer was produced with the best available materials and quality craftsmanship. However, you as the owner have certain responsibilities for the correct care of the equipment. Attention to regular preventative maintenance procedures will assist in preserving the performance of your equipment. Contact your dealer for maintenance. Regular preventative maintenance will add many hours to the life of your pressure washer. Perform maintenance more often under severe conditions.

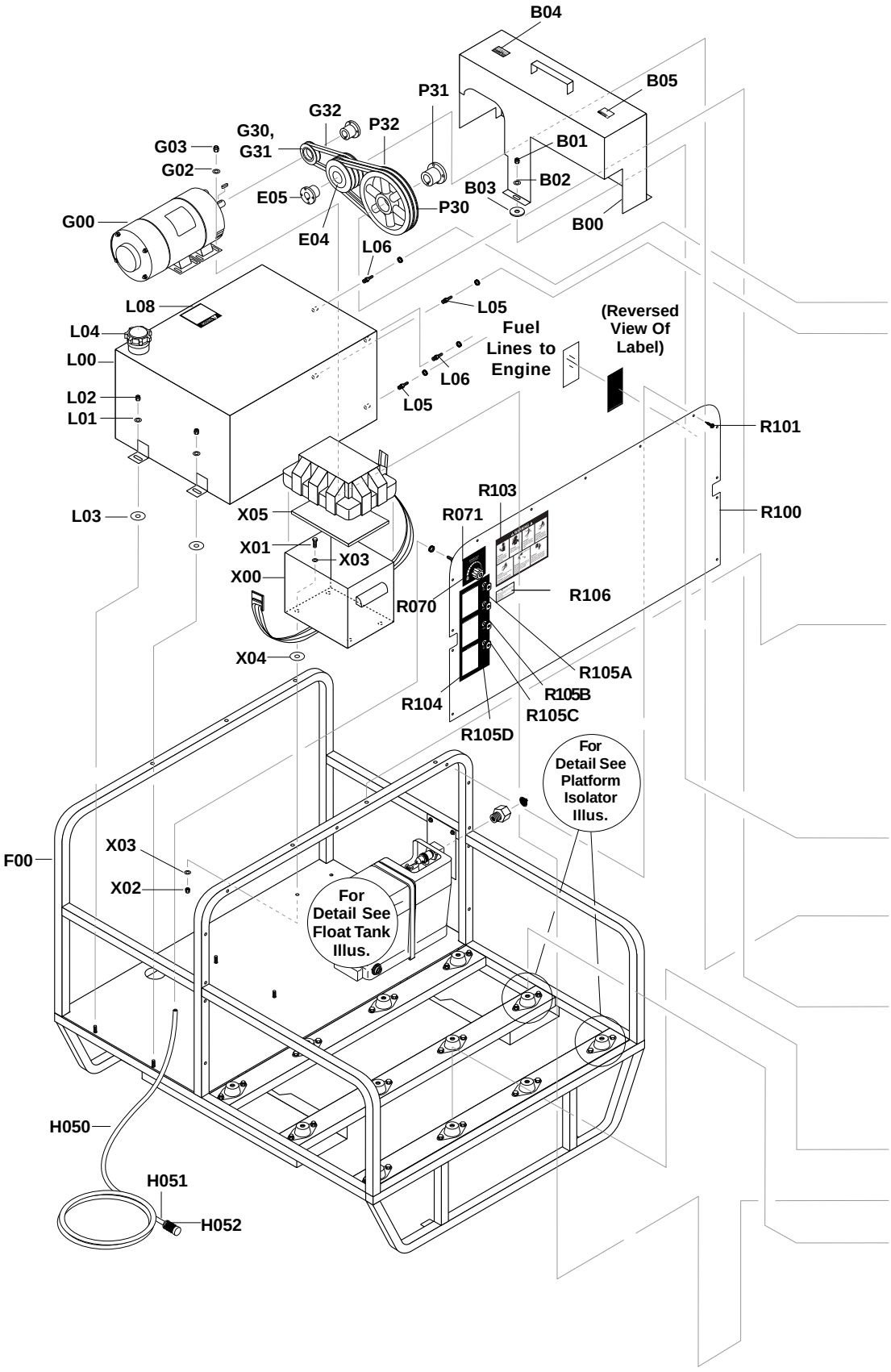
Check pump oil level before first use of your new pressure washer. **Change** pump oil after first 50 hours and every 3 months or 500 hours thereafter. Use SAE 30 weight oil, non-detergent.

Date Oil Changed Month/Day/Year	No. of Operating Hours Since Last Oil Change	Brand Name and Type of Oil (see above)

MAINTENANCE

Maintenance Operation		Every 8 Hrs or Daily	25 Hrs or Weekly	50 Hrs or Monthly	100 Hrs or Yearly	Yearly
Check Oil	Pump		X			
	Engine	X				
Change Oil	Pump					X
	Engine			X		
Air Cleaner		Check		Clean		
Spark Plug					X	
Check Valve Clearance						X
Fuel Tank Filter					X	
Water Filter/Clean		Check				X

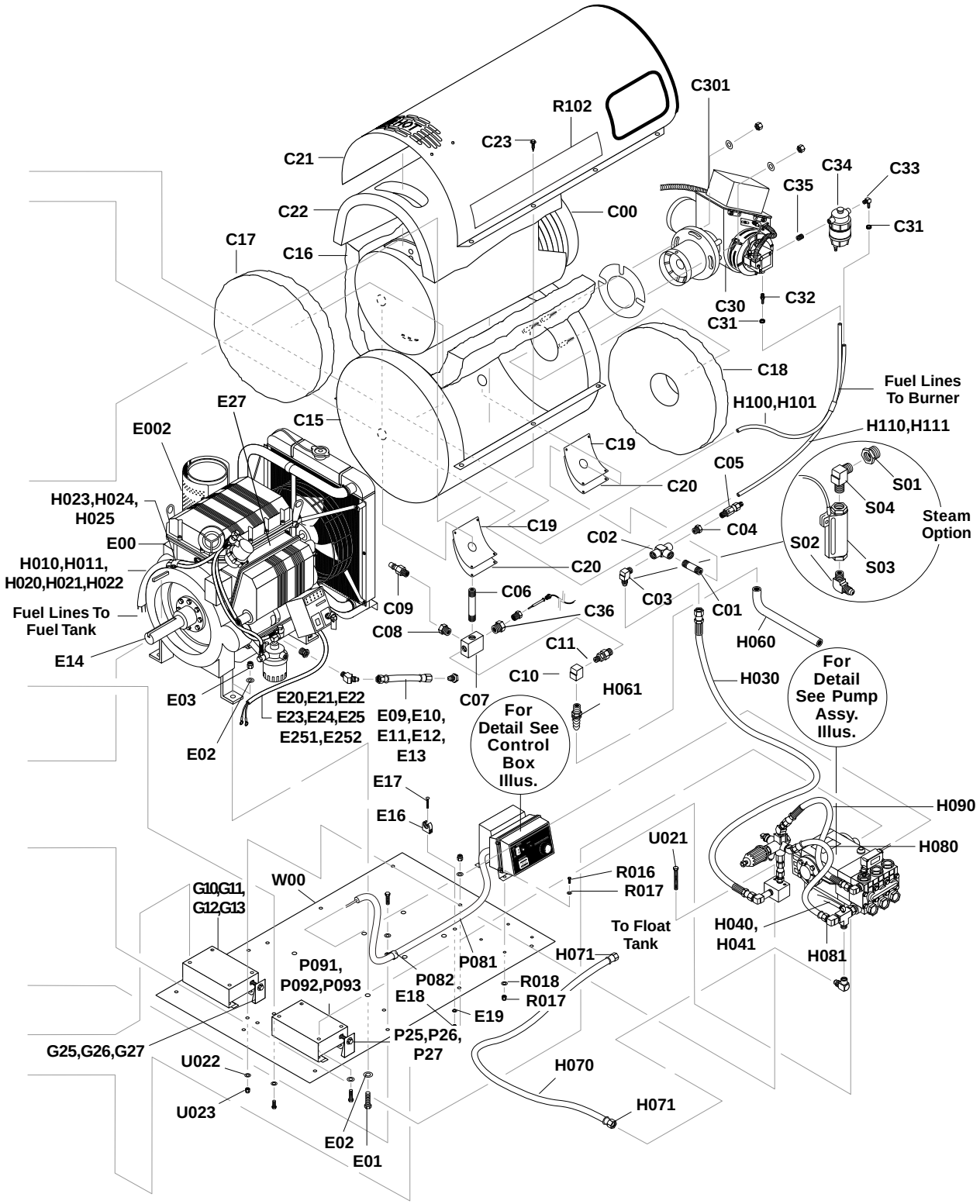
EXPLODED VIEW



LEGEND

G = Generator	L = Fuel Tank	B = Beltguard	U = Unloader
R = Controls	F = Frame	H = Hose	P = Pump
E = Engine	X = Battery Box	W= Power Platform	C = Coil
N = Final Assembly	T = Float Tank		

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
B00	95-07200077	Belt Guard, Diesel SS	1
B01	90-2002	Nut, 3/8" ESNA, NC	3
B02	90-4002	Washer, 3/8", SAE, Flat	3
B03	2-0108	Bumper Pad, Engine	2
B04	10-02025A	Label, Hot/Caliente w/Arrows Warning	1
B05	10-02028	Label, Warning-Exposed Pulleys	1
C00	95-07200055	Coil, Rodless	1
C01	2-000891	Nipple, 1/2" x 2-1/2", Galvanized SCH 80	1
C02	2-0036	Tee, 1/2" Female, Steel Pipe	1
C03	2-0054	Elbow, 1/2" JIC, 1/2", 90°	1
C04	2-00681	Bushing, 1/2" x 3/8", Steel	1
C05	2-3245	Valve, Safety Relief, 4500 PSI	1
C06	2-00101	Nipple, 1/2" x 4", Galv. SCH 80	1
C07	95-07101226	Block, Discharge, Brass, 1/2" x 1/2"	1
C08	2-00681	Bushing, 1/2" x 3/8", Steel	1
C09	2-2007	Nipple, 3/8" x 3/8" NPT ST Male	1
C10	2-1019	Elbow, 3/8" Female	1
C11	2-3409	Disk, Rupture Assy, 7000 PSI	1
C15	95-07200012	Weldment, Bottom Wrap, SS	1
C16	7-01430	Insulation, Blanket, No Foil	1
C17	7-0140	Insulation, Front Head, No Hole	1
C18	7-0141	Insulation, Burner Head, w/Hole	1
C19	7-0144	Gasket, Burner Plate	2
C20	95-07121113	Insulation Retainer	2
C201	90-2990	▲ Screw, SS #10 HH Tek	8
C21	95-07200010	Top Wrap, SS	1
C211	90-40021	▲ Washer, 3/8", SAE, SS	4
C22	7-01484	Insulation/Blanket, Die-Cut 28	1
C23	90-19959	Screw, 3/8" x 1" HX Wash Head	8
C30	Burner Assembly, See Spec's Pages 32-33		
C301	6-0516	Strain Relief, 1/2" Metal, Two Screw	1
C31	2-9040	Clamp, Hose, UNI .46 - .54	4
C32	2-10893	Hose Barb, 1/4" Barb x 1/4" ML Pipe	1
C33	2-1089	Hose Barb, 1/4" Barb x 1/4" Pipe, 90°	1
C34	2-99050	Filter, Fuel/H_2O/Oil Separator	1
C35	2-1003	Nipple, 1/4" Hex	1
C36	2-00742	Adapter, 1/2" x 1/2" Pipe STL	1
E00	5-0405	Engine, Lombardini Diesel, 15 HP	1
E01	90-101810	Bolt, 3/8" x 1-1/2", HH NC GRD 8, Zinc	4
E02	90-4002	Washer, 3/8", SAE, Flat	9
E03	90-2002	Nut, 3/8" ESNA, NC	4
E04	Pulley, See Parts Specifications Pages 32-33		
E05	Bushing, See Parts Specifications Pages 32-33		
E051	90-1007	▲ Bolt, 5/16" x 1", NC HH	3
E09	2-11065	Adapter, M18-1.5 x 3/8" FNPT	1
E10	2-0051	Nipple, 1/2" JIC, 3/8" FNPT	1
E11	4-0210000	Hose, 1/2" Push-On	2 ft.
E12	2-1105	Swivel, 1/2" Fem, Push-On	2
E13	2-1050	Plug, 1/2" JIC, Flare, 639F-8	1
E14	74-9997832	Shaft, Lombardini LDW602/903	1
E15	74-9170104	▲ Deflector, Exhaust	1
E16	2-9013	Clamp, 1/2" Ro-Clip, Kleinhuis	1
E17	90-1994	Screw, 10/32" x 1-1/4" RH, SL, Black	1
E18	90-017	Nut, 10/32" KEPS	1
E19	90-4000	Washer, 1/4", Flat, SAE	1
E20	6-0117	Wire, THWN, 6 Gauge, Red	6.7 ft.
E21	6-0118	Wire, THWN, 6 Gauge, Black	5.8 ft.
E22	6-0503	Terminal, Ring Tongue	2
E23	6-05030	Terminal, Ring Tongue	2
E24	6-05101	Connector, Battery Post	2
E25	7-0139	Insulation, Fiber Sleeving, 1/2"	3.5 ft.
E251	2-9016	Clamp, Round, 0.56 ID	3
E252	90-300210	Screw, #14 x 1", TEK, Black, Zinc	3
E27	10-0624	Label, RPM Factory Set	1
F00	95-07200075	Frame Assy, 24 HP, Diesel	1
G00	6-0601	Generator, 2FSM2PC-1/A, WINC	1

LEGEND

G = Generator
R = Controls
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F = Frame
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H = Hose
W= Power Platform
U = Unloader
P = Pump

EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
G01	90-1016	▲ Bolt, 3/8" x 1", NC HH	4
G02	90-4002	Washer, 3/8", SAE, Flat	8
G03	90-2002	Nut, 3/8", ESNA, NC	4
G10	95-07200009	Weldment, Pump/General Rail	1
G11	90-1016	▲ Bolt, 3/8" x 1", NC HH	3
G12	2-011981	▲ Washer, Snubbing	3
G13	90-4009	▲ Washer, 3/8", Lock, Split Ring 3	
G25	90-10220	Bolt, 3/8" x 3-1/2", TAP	1
G26	90-4002	Washer, 3/8", SAE, Flat	4
G27	90-2007	Nut, 3/8", Hex, NC	2
G30	Pulley, See Parts Specifications Pages 32-33		
G31	▲ Bushing, See Parts Spec's Pages 32-33		
G32	Belt, See Parts Specifications Pages 32-33		
H010	4-02100001	Hose, 3/16", Push-On, Fuel Line	4 ft.
H011	2-9000	Clamp, Screw, #4	2
H020	4-02100000	Hose, 1/4", Push-On, Fuel Line	3.3 ft.
H021	2-9000	Clamp, Screw, #4	2
H022	7-0139	Insulation, Fiber Sleeving, 1/2"	2.5 ft.
H023	2-9016	Clamp, Round, 0.56 ID	1
H024	90-1030	Bolt, 8mm x 16mm Hex Head	1
H025	90-4008	Washer, 5/16", Lock, Split Ring	1
H030	4-02047762	Hose, 3/8" X 62", 2 Wire, Pressure	1
H040	4-020900000	Hose, 1/4" x 1/2", Braided Vinyl	4 ft.
H041	2-9040	Clamp, Hose, UNI .46 - .54	2
H050	4-02080000	Tube, 1/4" x 1/2", Clear Vinyl	6 ft.
H051	2-9000	Clamp, Screw, #4	1
H052	2-1905	Strainer, 1/4", Brass w/Check	1
H060	4-02110000	Hose, 1/2" Push-On	2 ft.
H061	2-1108	Hose Barb, 1/2" Barb x 3/8" MPT, Push-On	1
H070	4-02120000	Hose, 3/4", Push-On	4 ft.
H071	2-11050	Swivel, 3/4" FJIC, Push-On	2
H080	4-02110000	Hose, 1/2" Push-On	1.25 ft.
H081	2-1105	Swivel, 1/2" FJIC, Push-On	2
H090	4-02047716	Hose, Pressure, 3/8" x 16"	1

ITEM	PART NO.	DESCRIPTION	QTY
H100	4-02100000	Hose, 1/4", Push-On, Fuel Line	1.6 ft.
H101	2-9000	Clamp, Screw #4	2
H110	4-02100000	Hose, 1/4", Push-On, Fuel Line	2.1 ft.
H111	2-9000	Clamp, Screw, #4	2
L00	95-07200081	Fuel Tank Assy, 20 Gal. MS	1
L01	90-4001	Washer, 5/16", Flat, SAE	4
L02	90-2001	Nut, 5/16", ESNA, NC	4
L03	2-0108	Bumper Pad, Engine	4
L04	2-01153	Cap, Fuel Tank, Plastic	1
L05	2-1088	Hose Barb, 1/4" Barb x 1/8" ML Pipe, 90°	3
L06	2-10893	Hose Barb, 1/8" Barb x 1/8" MPT, 90°	1
L07	2-1046	▲ Plug, 1/4" Countersunk	1
L08	10-020110	Label, Use Only Kerosene	1
P081	7-0139	Insulation, Fiber Sleeving, 22"	1
P082	2-9016	Clamp, Round, 0.56 ID	2
P091	90-1016	▲ Bolt, 3/8" x 1", NC HH	3
P092	2-011981	▲ Washer, Snubbing	3
P093	90-4009	▲ Washer, 3/8" Lock, Split Ring	3
P25	90-10220	Bolt, 3/8" x 3-1/2", Tap	1
P26	90-4002	Washer, 3/8", SAE, Flat	4
P27	90-2007	▲ Nut, 3/8" Hex, NC	2
P30	Pulley, See Parts Specifications Pages 32-33		
P31	Bushing, See Parts Specifications Pages 32-33		
P32	Belt, See Parts Specifications Pages 32-33		
R016	90-1007	Bolt, 5/16" x 1", NC HH	4
R017	90-2001	Nut, 5/16", ESNA, NC	4
R018	90-4001	Washer, 5/16", Flat, SAE	8
R070	2-30152	Valve, Metering, 1/4" Hose	1
R071	11-0711	Label, Detergent Valve	1
R100	95-07200073	Control Panel	1
R101	90-300210	Screw, #14 x 1", Tek, Black, Zn13	
R102	11-0602	Label, Stripe 17"	
R103	11-1043	Label, Warning, Text	1
R104	11-1044	Label, Control Panel	1
R105a	4-12805500	Nozzle, SAQCMEG 0005.5, Red	1

LEGEND

G = Generator
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EXPLODED VIEW PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
R105b	4-12805515	Nozzle, SAQCMEG 1505.5, Yellow	1
R105c	4-12805525	Nozzle, SAQCMEG 2505.5, Green	1
R105d	4-12805540	Nozzle, SAQCMEG 4005.5, White	1
R106	9.800-049.0	Label, Manufacturer's Cleaning Solution	1
S01	2-00681	Bushing, 1/2" x 3/8" Steel	1
S02	2-0053	Elbow, 1/2" JIC x 3/8" MPT	1
S03	6-021730	Switch, MV60	1
S04	2-00270	Elbow, 3/8" Male Pipe	1
U021	90-1021	Bolt, 3/8" x 2-1/2", GRD 5, Zinc	2
U022	90-4002	Washer, 3/8", SAE, Flat	2
U023	90-2002	Nut, 3/8" ESNA, NC	2
W00	95-07200076	Assy, Power Platform, Diesel	1
X00	2-0115	Box, Battery, M100	1
X01	90-1002	Bolt, 1/4" x 1", Hex Head	4
X02	90-2000	Nut, 1/4", ESNA, NC	4
X03	90-4000	Washer, 1/4", Flat, SAE	8
X04	2-0108	Bumper Pad, Engine	4
X05	2-011500	Plate, Battery Box, Large, PO	1

▲ Not Shown

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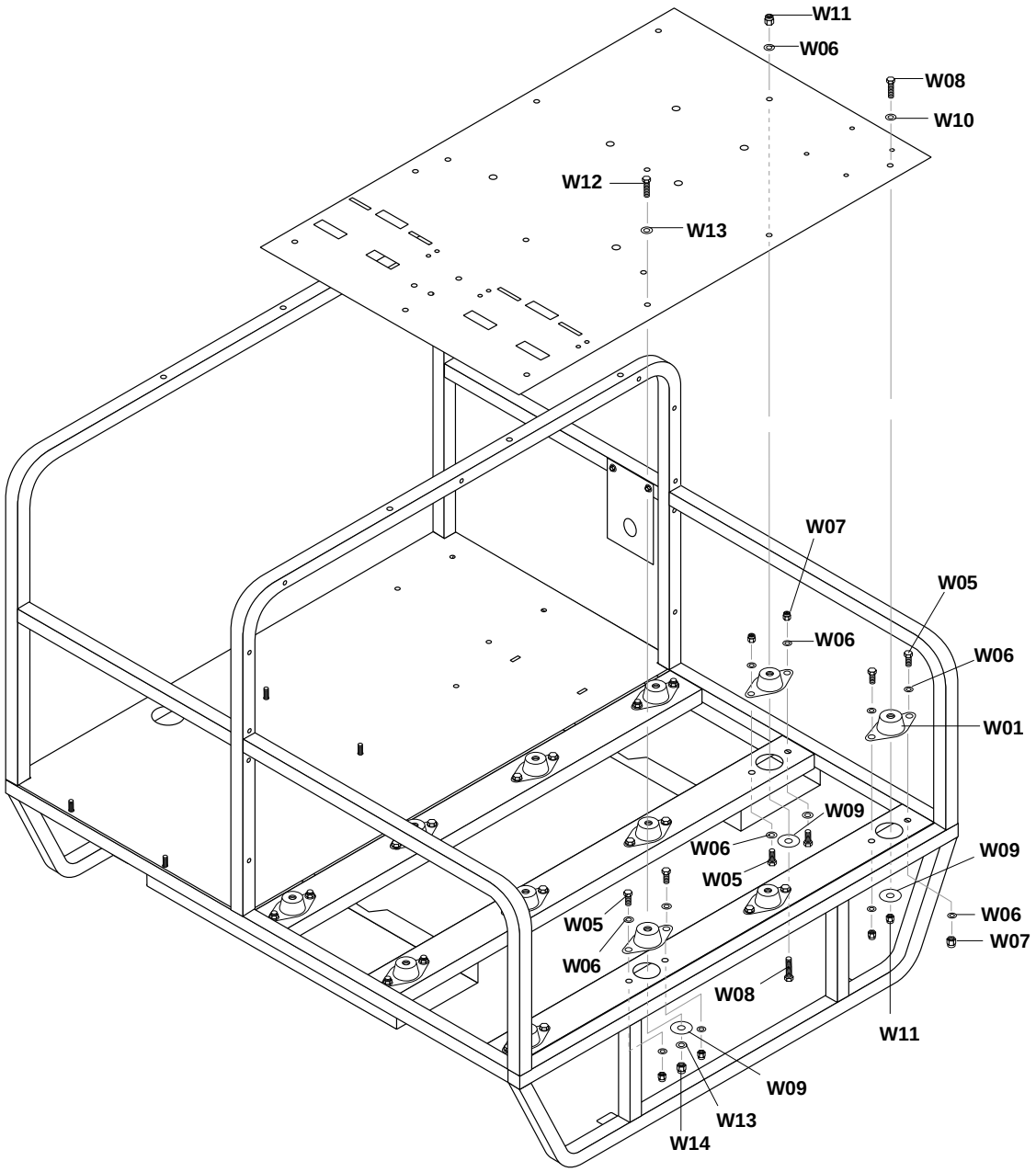
PLATFORM ISOLATOR EXPLODED VIEW



PLATFORM ISOLATOR PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
W01	2-01013	Isolator, Vibration Mount, 100L	12
W05	90-1007	Bolt, 5/16" x 1", NC HH	24
W06	90-4001	Washer, 5/16", Flat, SAE	48
W07	90-2001	Nut, 5/16", ESNA, NC	24
W08	90-1021	Bolt, 3/8" x 2-1/2" GR 5 Zinc	10
W09	2-011981	Washer, Snubbing	12
W10	90-4002	Washer, 3/8" SAE, Flat	10
W11	90-2002	Nut, 3/8" ESNA, NC	10

ITEM	PART NO.	DESCRIPTION	QTY
W12	90-1012	Bolt, 5/16" x 2-1/2" NC HH	2
W13	90-4001	Washer, 5/16" Flat, SAE	4
W14	90-2001	Nut, 5/16" ESNA, NC	2

LEGEND

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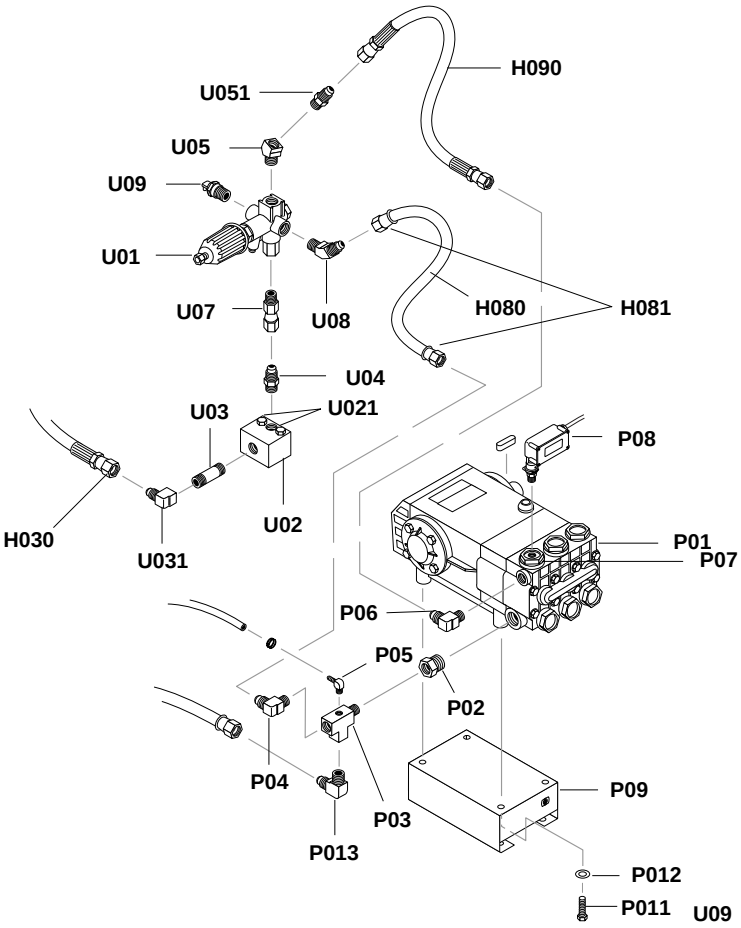
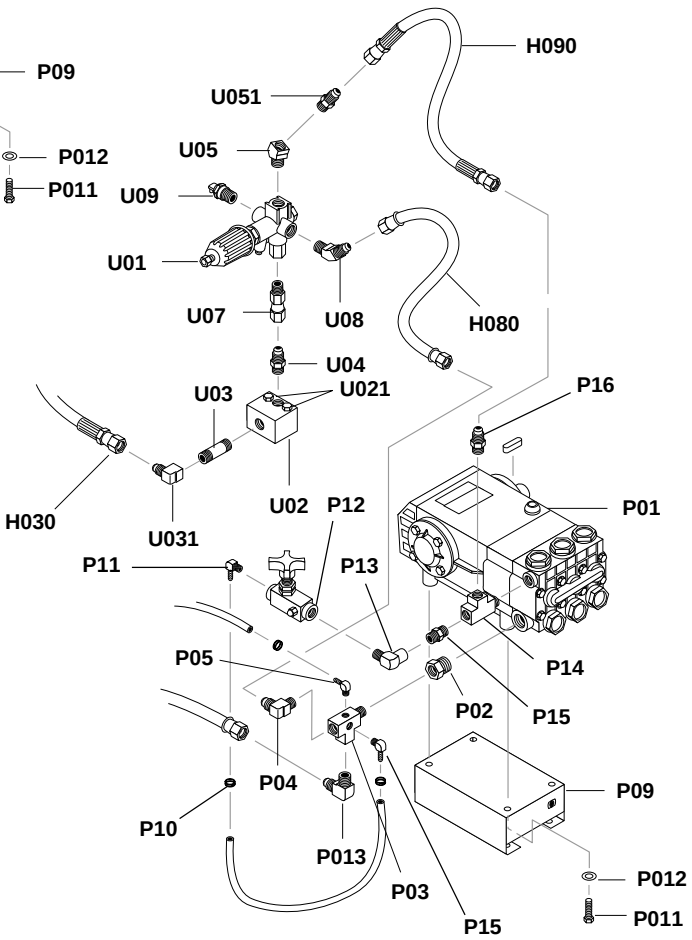
PUMP ASSEMBLIES EXPLODED VIEW

Standard Pump Assembly



Steam Option Pump Assembly



LEGEND

G = Generator	L = Fuel Tank	B = Beltguard	U = Unloader
R = Controls	F = Frame	H = Hose	P = Pump
E = Engine	X = Battery Box	W= Power Platform	
N = Final Assembly	T = Float Tank		

PUMP ASSEMBLIES PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
H030	4-02047762	Hose, 3/8" Pressure	5 ft.
H080	4-02100000	Hose, 1/2" Push-On	1.6 ft.
H081	2-1105	Swivel, 1/2" JIC Fem, Push-On	2
H090	4-02047716	Hose, 3/8" Pressure	16"
P01	Pump, See Parts Specification's Pages 32-33		
P011	1-99364400	Screw, Pump	4
P012	1-96710600	Washer, Lock, Pump	4
P013	2-10630	Elbow, 3/4" JIC x 1/2" 90°	1
P02	2-1081	Bushing, 3/4" x 1/2" Pipe	1
P03	2-10421	Tee, 1/2" with 1/8" Hole, Street	1
P04	2-1062	Elbow, 1/2" JIC, 3/8", 90°	2
P05	2-1088	Hose Barb, 1/4" Barb x 1/8" ML Pipe, 90° (Steam Option)	1 2
P06	2-0053	Elbow, 1/2" JIC, 3/8", 90°	1
P07	70-460146	Cap, Valve with 1/4" Gauge Port	1
P08	6-021720	Switch, Pressure, N/O, 1/4" NPT SS	1
P09	95-07200054	Weldment, Pump Rail, Wide	1
P10	2-9040	Clamp, Hose (With Steam)	1 3

ITEM	PART NO.	DESCRIPTION	QTY
P11	2-1089	Hose Barb, 1/4" Barb x 1/4" ML Pipe, 90°	1
P12	2-30151	Valve, Steam	1
P13	2-00301	Elbow, 1/4" x 3/8" Street	1
P14	2-0045	Tee, 3/8" Street	1
P15	2-0006	Nipple, 3/8" Hex Steel	1
P16	2-0051	Nipple, 1/2" JIC x 3/8" Pipe	1
U01	5-3208	Unloader, AL-VRT 607, 7.8 GPM @ 4200 PSI	1
U02	95-071012150/B	Block Unloader, 1/2" x 1/2", Brass	1
U021	90-10210	Bolt, 3/8" x 3"	2
U03	2-000891	Nipple, 1/2" x 2-1/2", Galvanized SCH 80	1
U031	2-00602	Elbow, 1/2" FNPT x 1/2" MJIC	1
U04	2-0052	Nipple, 1/2" JIC, 1/2" Pipe	1
U05	2-00575	Elbow, 3/8", Street, 45°	1
U051	2-0051	Nipple, 1/2" MJIC x 3/8" NPT	1
U07	2-0079	Swivel, 1/2" JIC Fem, 3/8" Male	1
U08	2-106301	Elbow, 1/2" JIC x 3/8", 45°	1
U09	2-300816	Pump Protector, 3/8" PTP	1

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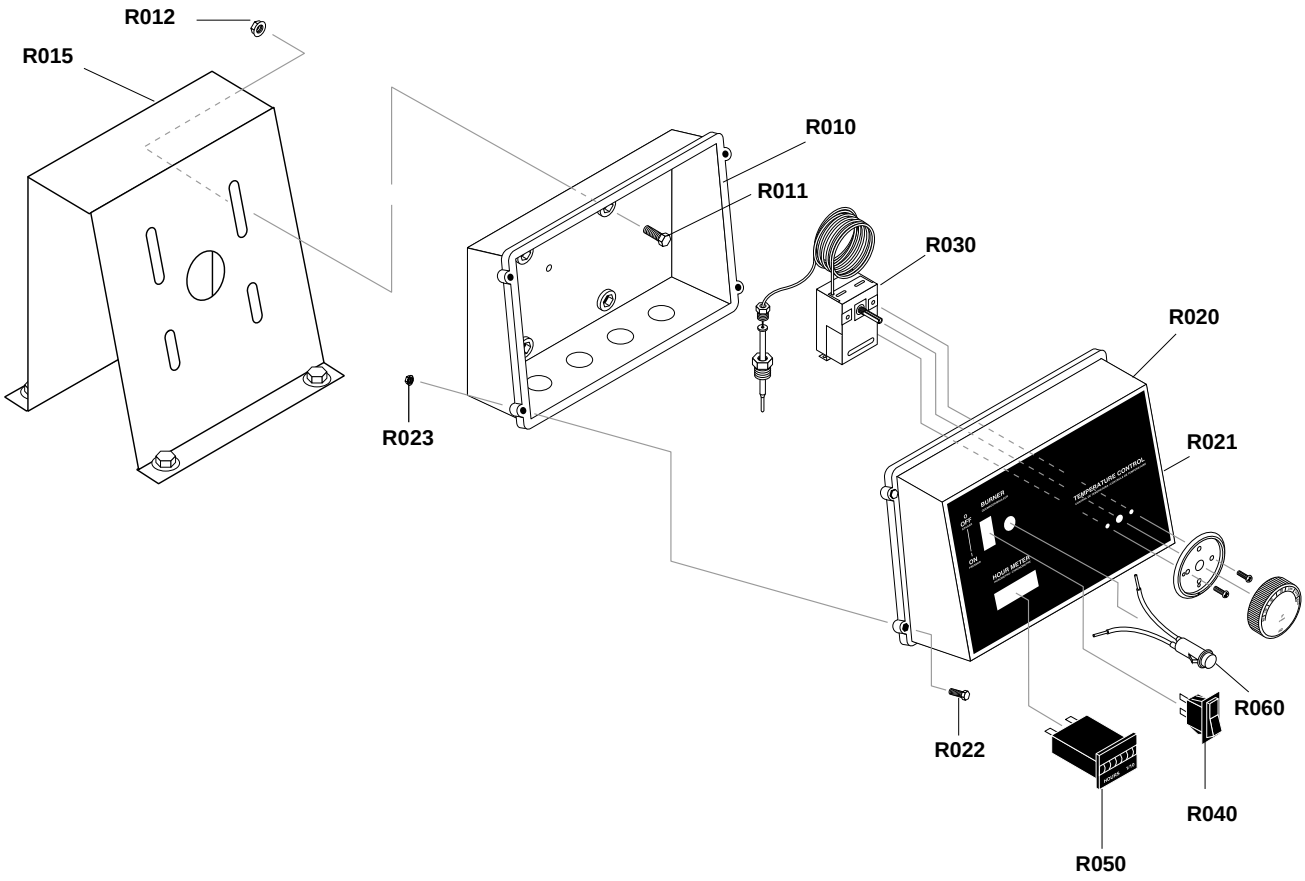
CONTROL BOX EXPLODED VIEW



CONTROL BOX PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
R010	6-03915	Box, Plastic, Back	1
R011	90-1001	Bolt, 1/4" x 3/4", NC HH	4
R012	90-200012	Nut, 1/4", Flange, ZN	4
R015	95-07200058	Bracket, Electrical Box	1
R020	6-0391601	Box, Plastic, Front, Fabricated	1
R021	11-1045	Label, Electrical Box, w/o Reset	1
R022	70-180503	Screw, M4 x 10	4
R023	70-030207	Nut	4
R030	4-05088	Thermostat, Adjustable, 302°	1
R031	6-01270	▲ Conduit, Corrugated, Tubing	3 ft.

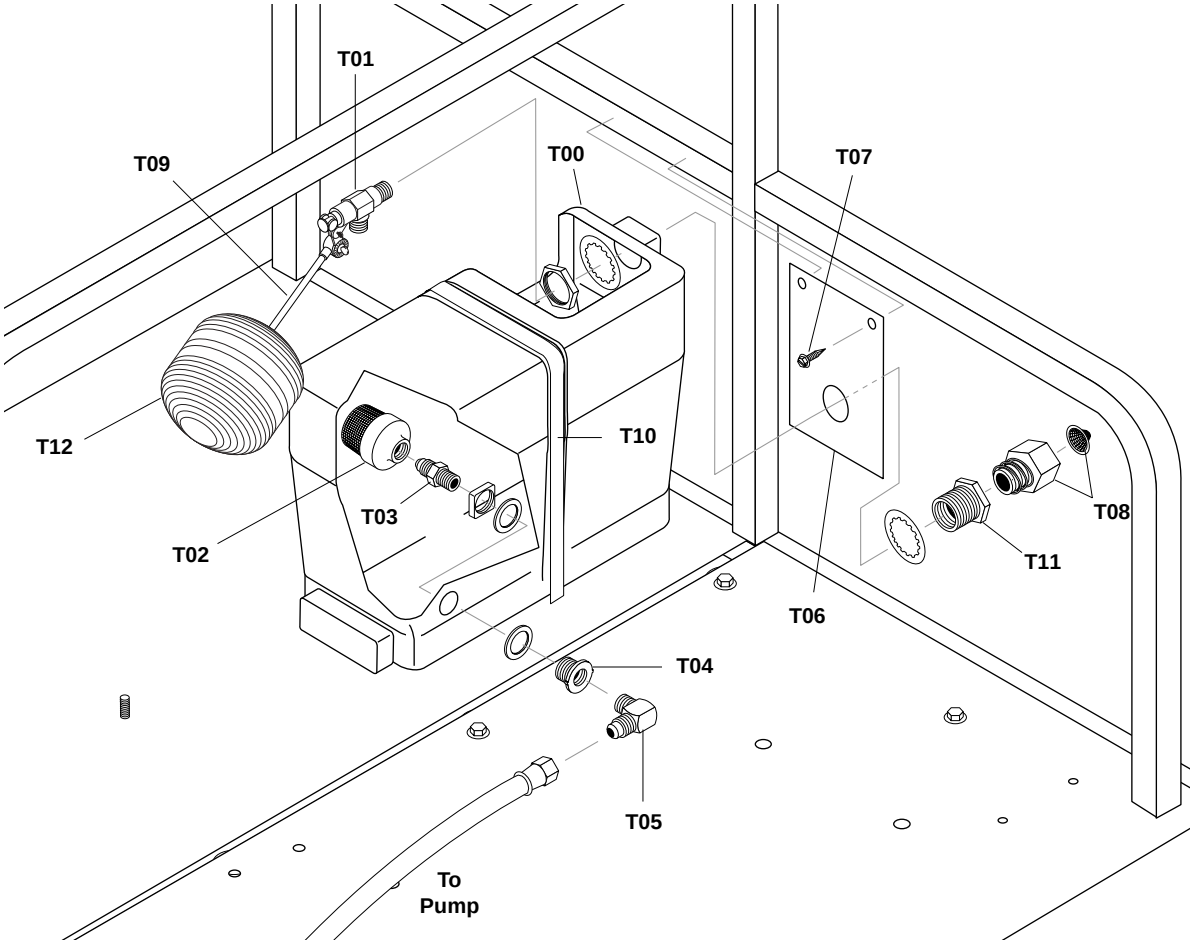
ITEM	PART NO.	DESCRIPTION	QTY
R040	6-020251	Switch, Curvette RA901VB-B-1	1
R050	4-050822	Hour Meter, 115VAC 60HZ	1
R060	6-020530	Light Indicator, Green 125V	1
R092	90-1994	▲ Screw, 10/32" x 1-1/4", Ground	1
R093	90-017	▲ Nut, 10/32"	8
R094	11-1042	▲ Label, Ground	1

▲ Not Shown

LEGEND

G = Generator	L = Fuel Tank	B = Beltguard	U = Unloader
R = Controls	F = Frame	H = Hose	P = Pump
E = Engine	X = Battery Box	W= Power Platform	
N = Final Assembly			

FLOAT TANK ASSEMBLY



FLOAT TANK PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
T00	2-01164100	Tank, Float, 2-1/2 Gallon	1
T01	2-3011	Valve, Float, Brass	1
T02	2-1906	Strainer, 1/2" Basket	1
T03	2-1053	Nipple, 1/2" JIC x 1/2" MPT	1
T04	2-010049	Bulkhead, 1/2" PVC	1
T05	2-10630	Elbow, 3/4" JIC x 1/2", 90°	1
T06	95-07200014	Support Plate, Float Tank	1

ITEM	PART NO.	DESCRIPTION	QTY
T07	90-300210	Screw, #14 x 1", TEK, Blk, Zinc	2
T08	2-10942	Swivel, 1/2" MP x 3/4" GHF, w/Strainer	1
T09	2-11141	Stem, 5" Float	1
T10	6-05134	Cable, TY, 48"	1
T11	2-11041	Anchor, Connector, 1/2"	1
T12	2-0102	Ball, Float, Black Plastic	1

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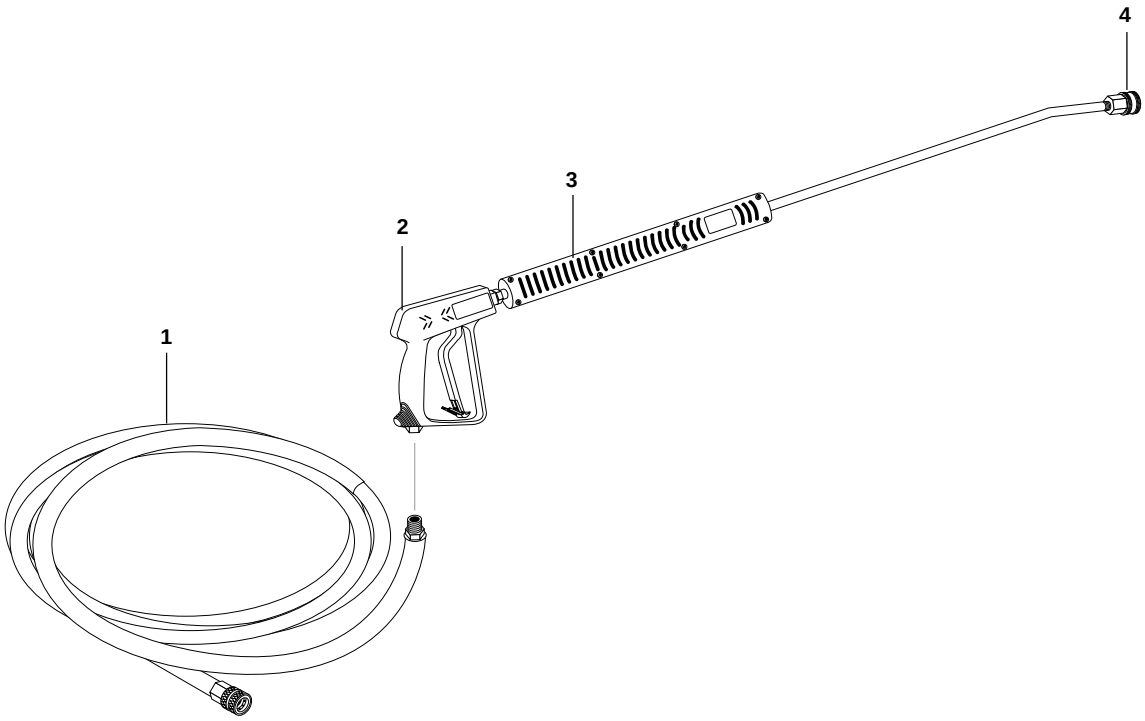
HOSE & SPRAY GUN ASSEMBLY



HOSE & SPRAY GUN PARTS LIST

ITEM	PART NO.	DESCRIPTION	QTY
1	4-020750C	Hose, 50' x 3/8", 2 Wire, TUFF Flex	1
2	4-01246	Spray Gun, Shut-Off, AP 1000	1
3	4-0111021	Lance, Spray, Insulated, 35.5" SS	1

ITEM	PART NO.	DESCRIPTION	QTY
4	2-2000	Coupler, 1/4"	1
	2-20023	Coupler, 1/4" Female	1
	2-0003	▲ Nipple, 1/4" Steel	1
	2-0119	▲ O-Ring, Replacement Only	1
	2-0132	▲ Seal, 1/4" Replacement Only	1

▲ Not Shown

SPECIFICATIONS

PART SPECIFICATIONS

	PUMP							ENGINE				
Machine Model	Pump Model	Part #	Unloader	Pulley	Pulley Part #	Bushing	Bushing Part #	Engine Size	Engine Part#	Engine Pulley	Pulley Part#	Bushing
503067E/G	GT-4035	5-1924	5-3208	2BK90H	5-40509001	25MM	5-512025	15 HP	5-0405	3TB34	5-407034	P2 x 1 1/2

SPECIFICATIONS

	ENGINE (CON'T)				GENERATOR			
Model (Con't)	Bushing Part #	Belt Size	Belt Part #	Pulley	Pulley Part#	Belts	Belt Part #	Bushing
503067E/G	5-531114	BX 34	5-604034	BK 32H	5-40403201	BX22	5-604022	5-511063

SPECIFICATIONS

BECKETT BURNER SPECIFICATIONS

Model No.	Burner Assy No.	Fuel Nozzle	Transformer	Burner Motor	Fuel Pump/ Solenoid/Cord	Fuel Solenoid Coil	Electrode
SSD-503067E/G	7-00011	7-01284	7-51824	7-21344U	7-21844U	7-21755U	7-578703

SHARK LIMITED NEW PRODUCT WARRANTY
PRESSURE WASHERS

WHAT THIS WARRANTY COVERS

All SHARK PRESSURE WASHERS are warranted by SHARK to the original purchaser to be free from defects in materials and workmanship under normal use, for the periods specified below. This Limited Warranty is subject to the exclusions shown below, is calculated from the date of the original purchase, and applies to the original components only. Any parts replaced under this warranty will assume the remainder of the part's warranty period. This warranty applies to the original purchaser and is not transferable.

LIMITED LIFETIME PARTS WARRANTY:

Components manufactured by SHARK, such as frames, handles, and belt guards. Forged brass pump manifold. All heating coils will have a three year warranty. Internal components (excluding oil seals) on the oil-end of all pressure washer pumps will have a seven year warranty.

ONE YEAR PARTS WARRANTY:

All other components, excluding normal wear items as described below, will be warranted for one year on parts. Warranty on these parts will be for one year regardless of the duration of the original component manufacturer's part warranty.

WARRANTY PROVIDED BY OTHER MANUFACTURERS:

Motors, generators, and engines, which are warranted by their respective manufacturers, are serviced through these manufacturers' local authorized service centers. SHARK cannot provide warranty on these items.

WHAT THIS WARRANTY DOES NOT COVER

This warranty does not cover the following items:

1. Normal wear items, such as nozzles, guns, discharge hoses, wands, quick couplers, seals, filters, gaskets, O-rings, packings, pistons, pump valve assemblies, strainers, belts, brushes, rupture disks, fuses, pump protectors.
2. Damage or malfunctions resulting from accidents, abuse, modifications, alterations, incorrect installation, improper servicing, failure to follow manufacturer's maintenance instructions, or use of the equipment beyond its stated usage specifications as contained in the operator's manual.
3. Damage due to freezing, chemical deterioration, scale buildup, rust, corrosion, or thermal expansion.
4. Damage to components from fluctuations in electrical or water supply.
5. Normal maintenance service, including adjustments, fuel system cleaning, and clearing of obstructions.
6. Transportation to service center, shop labor charges, field labor charges, or freight damage.

WHAT YOU MUST DO TO OBTAIN WARRANTY SERVICE

While not required for warranty service, we request that you register your SHARK pressure washer by returning the completed registration card. In order to obtain warranty service on items, you must return the product to an Authorized SHARK Dealer, freight prepaid, with proof of purchase, within the applicable warranty period. If the product is permanently installed, you must notify your Authorized SHARK Dealer of the defect. The Authorized Dealer will file a claim, which must subsequently verify the defect. In most cases, the part must be returned to SHARK freight prepaid with the claim. For warranty service on components warranted by other manufacturers, the Authorized Dealer can help you obtain warranty service through these manufacturers' local authorized service centers.

LIMITATION OF LIABILITY

SHARK'S liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall SHARK'S liability exceed the purchase price of the product in question. SHARK makes every effort to ensure that all illustrations and specifications are correct, however, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product will actually conform to the illustrations and specifications. **THE WARRANTY CONTAINED HEREIN IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.** SHARK does not authorize any other party, including authorized Dealers, to make any representation or promise on behalf of SHARK, or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of SHARK products conforms to local codes. While SHARK attempts to assure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product.

SHARK PRESSURE WASHERS
1-800-771-1881 • www.shark-pw.com

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